

Filling valve, pneumatically operated, Series AS3-SSV

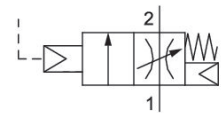
R412007311

Series AS3

2024-04-03

Series AS3

The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry

Industrial

Type

With pneumatic priority circuit, adjustable filling time.

Activation

Pneumatically

Parts

Filling valve

Nominal flow Qn

4400 l/min

Compressed air connection

G 3/8

Min. working pressure

2.5 bar

Max. working pressure

16 bar

Connection type

Pipe connection

Sealing principle

Soft seal

Type

Poppet valve

Can be assembled into blocks

Can be assembled into blocks

Min. ambient temperature

-10 °C

Max. ambient temperature

50 °C

Medium

Compressed air
Neutral gases

Max. particle size

40 µm

Compressed air connection pilot exhaust

G 1/8

Nominal flow Qn 1 to 2

4400 l/min

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Weight 0.49 kg

Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Acrylonitrile butadiene styrene
Material threaded bushing	Die cast zinc
Part No.	R412007311

Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Nominal flow Q_n with secondary pressure $p_2 = 6,3$ bar at $\Delta p = 1$ bar

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p_1 is immediately applied.

For unthrottled operation, the filling valve must be permanently electrically actuated.

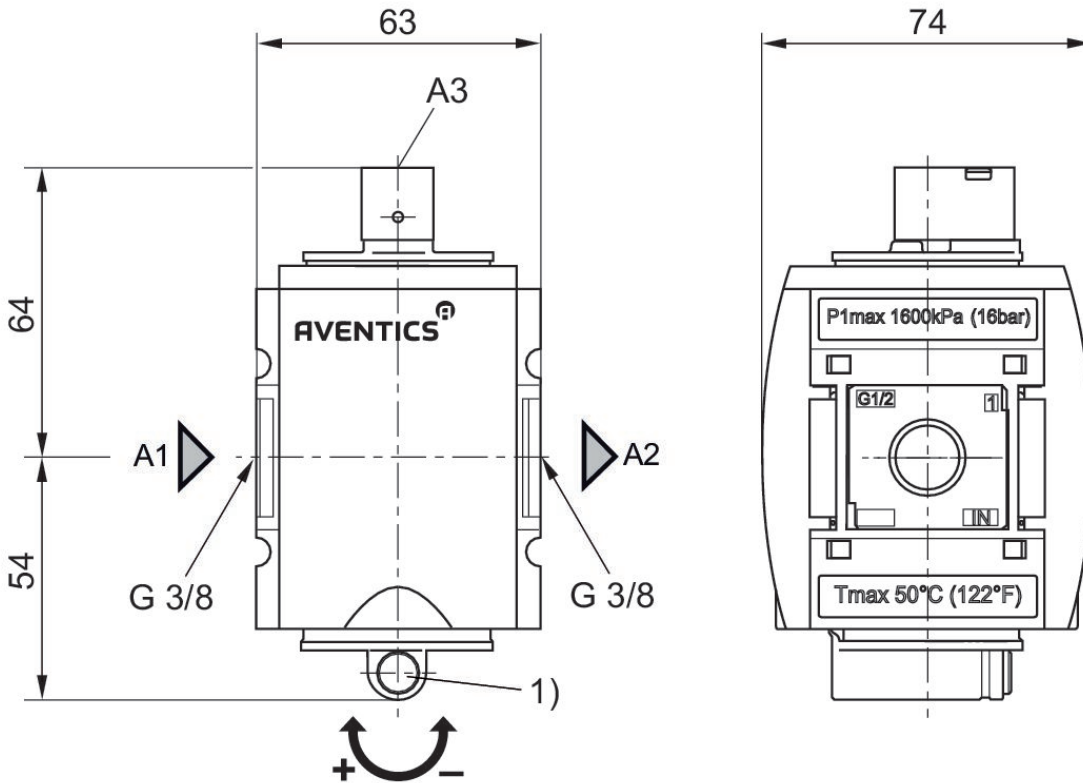
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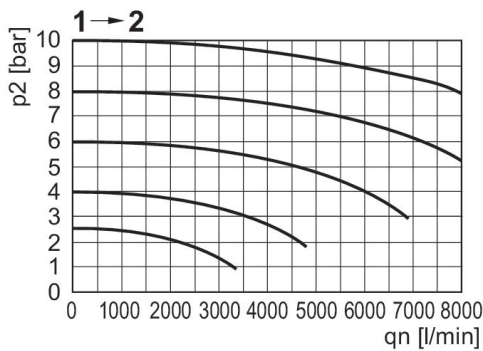
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Dimensions in mm

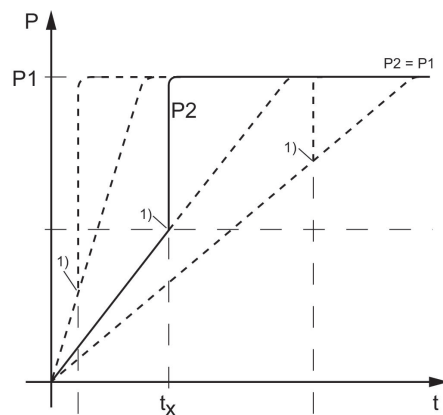


- A1 = input
- A2 = output
- A3 = control pressure connection
- 1) Adjustment screw for filling time

Flow rate characteristic, $p_2 = 0,05 - 7$ bar Secondary pressure while filling



p_2 = Secondary pressure
 q_n = Nominal flow



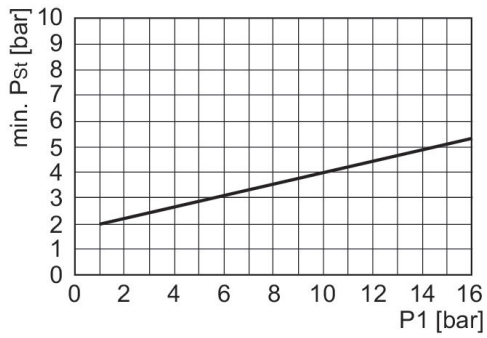
p_1 = Working pressure
 p_2 = output pressure
 t = filling time
 t_x = switchover time
1) Pneumatically triggered switching point
Filling time adjustable via adjustment screw (throttle)

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control pressure characteristic



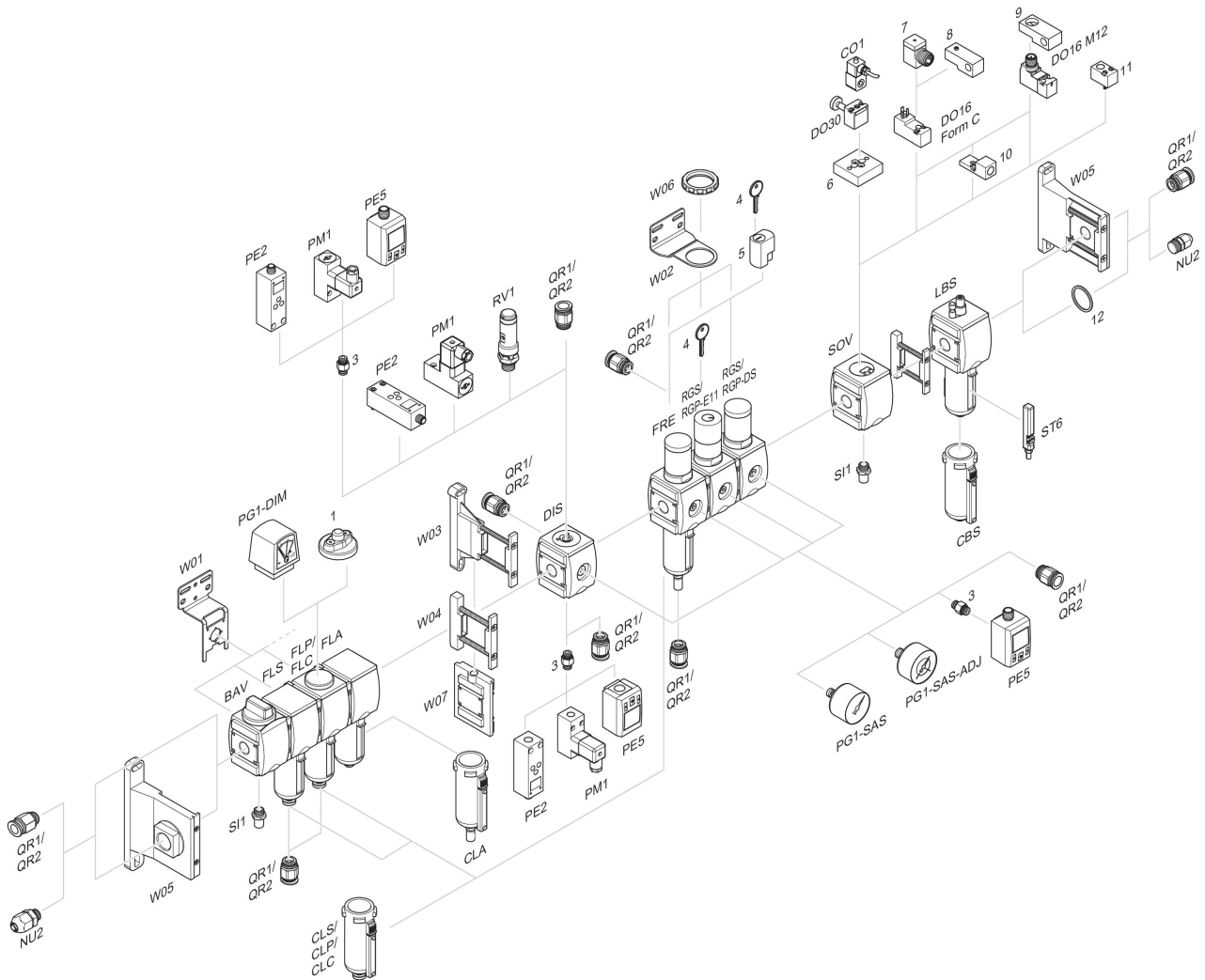
p1 = Working pressure
PS = control pressure

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Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring